

IN THE CLAIMS:

1. (Cancelled)
2. (Currently Amended) A surface acoustic wave device, comprising:
a piezoelectric substrate;
a plurality of interdigital transducers disposed on a surface acoustic wave propagation path of a the piezoelectric substrate; and
a plurality of reflecting electrodes disposed at both the sides of the plurality of interdigital transducers,
wherein the plurality of interdigital transducers contain a first type of interdigital transducer and a second type of interdigital transducer disposed alternately,
wherein when an aperture length of an electrode finger of the first type of interdigital transducer is denoted by X, each of the second type of interdigital transducers has two divided interdigital transducers each having an electrode finger in which each aperture length is denoted by substantially X/2, and
wherein ~~the first type of an~~ interdigital transducer of the first type is connected to an unbalanced input or output terminal pair, and the two divided interdigital transducers are serial-connected, and the electrodes of the respective electrode fingers are led from the two divided interdigital transducers, and are connected to a balanced terminal pair, and the respective electrode fingers of the two divided interdigital transducers are disposed so that phases of signals in the balanced terminal pair are different at 180° ,
and a connection part of the two divided interdigital transducers are connected to ground.
3. (Currently Amended) The surface acoustic wave device according to claim 4 2, wherein
in the two divided interdigital transducers, a position of the electrode finger at a side of connecting with the balanced terminal is mutually slid in half-waves.

4. (Cancelled)
5. (Cancelled)
6. (Cancelled)
7. (Original) The surface acoustic wave device according to claim 2, wherein the plurality of interdigital transducers constitute a double mode filter by three interdigital transducers.
8. (Original) The surface acoustic wave device according to claim 2, wherein the plurality of interdigital transducers are five or more interdigital transducers, constituting a multi-electrode filter.
9. (Cancelled)
10. (Cancelled)
11. (Cancelled)
12. (Currently Amended) A The surface acoustic wave device, according to claim 10, wherein comprising:
first and second stages, which are cascade-connected, the first stage having a plurality of interdigital transducers of a first type disposed on a surface acoustic wave propagation path of a piezoelectric substrate, and the second stage having a plurality of interdigital transducers disposed on the surface acoustic wave propagation path,

wherein the plurality of interdigital transducers of the second stage include interdigital transducers of the first type and interdigital transducers of a second type, which are disposed alternately,

wherein when an aperture length of an electrode finger of the interdigital transducers of the first type is denoted by X, each of the interdigital transducers of the second type has two divided interdigital transducers each having an electrode finger in which each aperture length is denoted by substantially X/2, and

wherein the interdigital transducers of the first stage are connected to an unbalanced input or output terminal pair, and two divided interdigital transducers of the second type are serial-connected, and the electrodes of the respective electrode fingers are led from the two divided interdigital transducers, and are connected to a balanced output or input terminal pair, and the respective electrode fingers of the two divided interdigital transducers are disposed so that phases of signals in the balanced terminal pair are different at 180°, and

wherein the interdigital transducers of the first type of the first and second stages
~~the two or more filters~~ are cascade-connected to each other in a plurality of connection parts of the interdigital transducers ~~configuring each filter~~, and a phase of the filter interdigital transducers of the first type is reversed in each neighboring connection part of the plurality of connection parts.

13. (Currently Amended) A The surface acoustic wave device according to claim 2 4, wherein the piezoelectric substrate is a 40° to 44° rotated Y-X LiTaO₃.

14. (Currently Amended) A The surface acoustic wave device according to claim 2 4 ~~to 8~~, wherein the piezoelectric substrate is a 66° to 74° rotated Y-X LiNbO₃.